

# mini iVENCs

IP enabled long-line PA and Voice Alarm control



# Announcing a new dimension in control

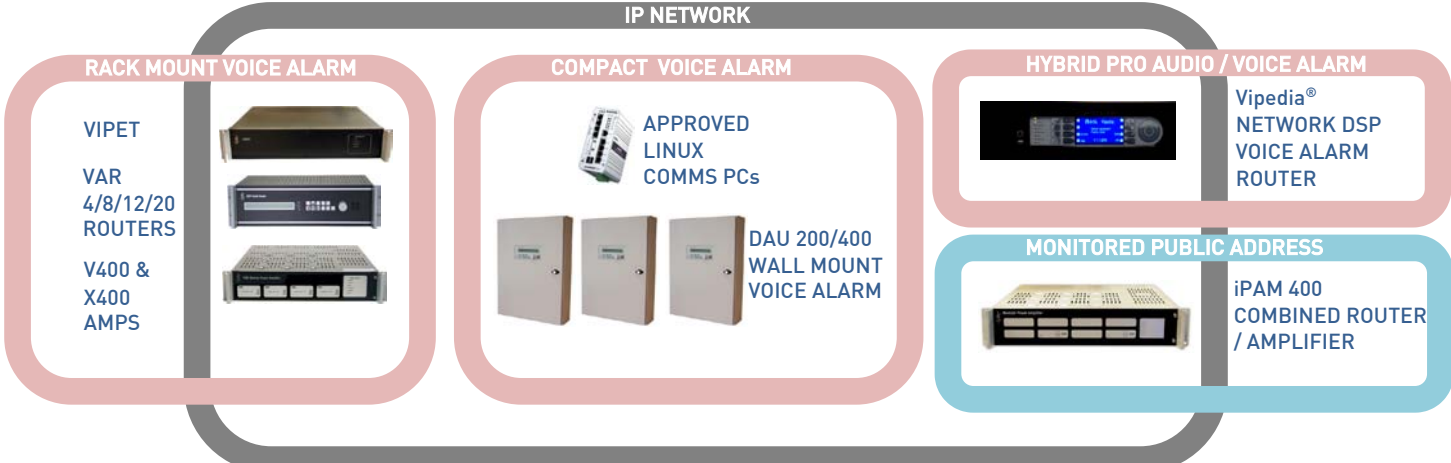
mini iVENCs® is the name for ASL’s networked Public Address and Voice Alarm control and monitoring platform. The product is based on the open, scalable and highly robust VIPA software platform which has been tried and tested on many international Long Line Public Address and intellevac voice alarm projects, ranging from international air and rail hubs to metropolitan light rail schemes, shopping centres and stadia venues.

Full control and monitoring is provided for any ASL products with VIPA based field equipment such as iPAM monitored PA systems and VIPET enabled VAR/V400/X400 intellevac systems. Ruggedised and inexpensive industrial communications computers in the field allow mini iVENCs to communicate with ASL’s wall-mounted intellevac products directly through their manufacturers existing PA equipment.

- Available on Linux and Windows® platform
- Real time display of announcement zone status
- Unlimited user configurable zones with grouping buttons
- Pro audio announcement mic and Operator Listen-in function
- Translucent overlay of easily customisable PA / VA and fire zones
- Flexible and robust PMC (Portable Media Carrier) VoIP protocol supports synchronised compressed and uncompressed audio
- Background music routing from external source or local MP3 playlists
- Priority graded alerts with network-wide fault-tree drill down for monitored PA equipment
- Built in equipment editor for placement of speakers, amps, routers and other rack equipment
- Management, recording, scheduling and distribution of Digital Voice Announcements
- Embedded Text to Speech engine with support for 25 languages
- Night volume control and Dynamic Ambient Noise Sensor® compatibility



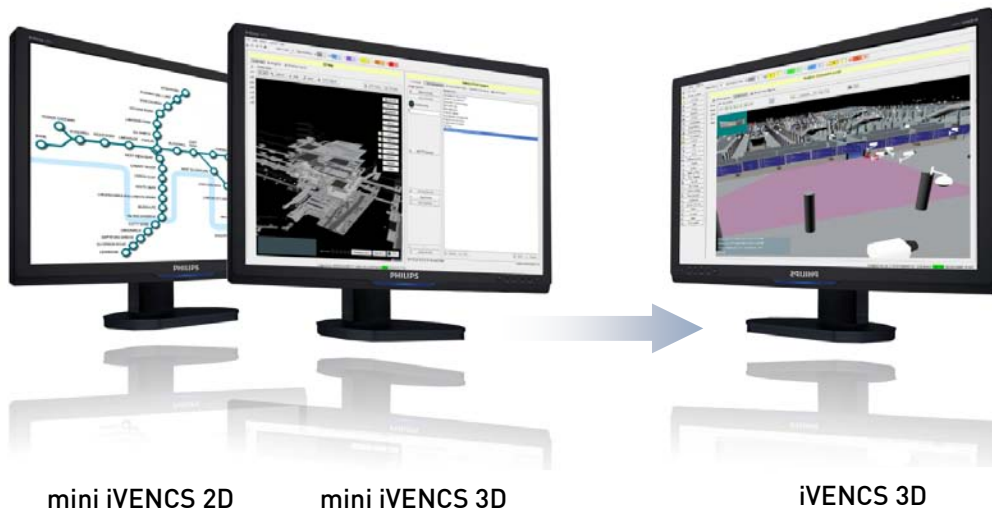
IP NETWORK



A combination of rack mount, compact and pro-audio can be used on local intellevac® copper networks at each location

# A sound platform for growth

A seamless upgrade path allows expansion of the system to incorporate the control and monitoring of other assets such as Passenger Information Systems (PIS), CCTV, Building Management Systems (BMS), Access Control, Fire Panels & detectors, Help Points, Intercoms and Data Networks.



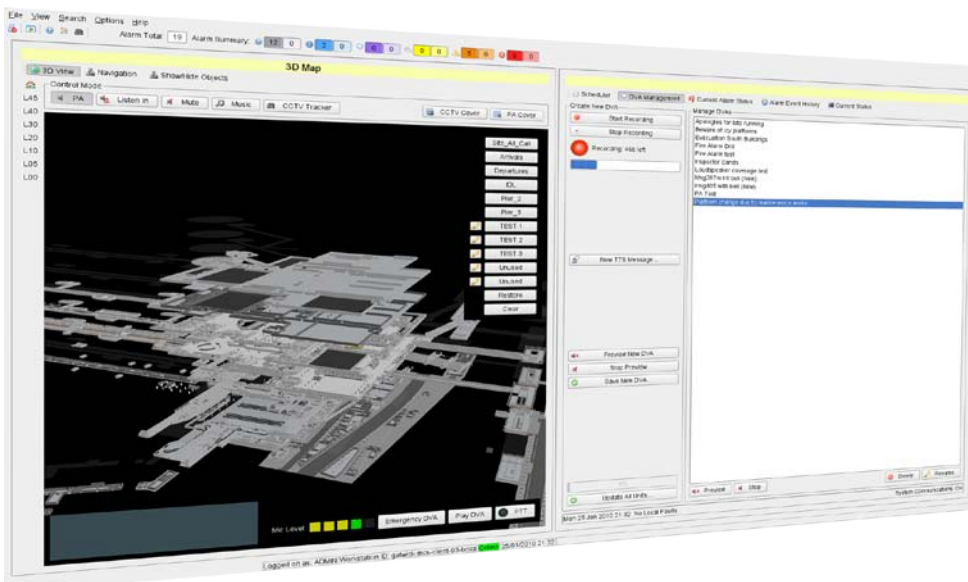
A simple upgrade path from initial management of PA/VA to a total control room solution covering all communications, security and life-safety subsystems

## Scalable and available

mini iVENCs software is licensed according to the number of operator workstations being used concurrently. Provision of redundant systems is straightforward since there is no additional licensing overhead for backup workstations or servers. The system is cross platform and based on COTS hardware configurations suited to a range of applications, depending on the requirement for failover redundancy. Single or multiple screens can be configured according to space requirements in the control room or at remote locations with a touch screen option also being available.

Installation and configuration of mini iVENCs software is typically carried according to an approved hardware configuration and set of testing procedures. For larger projects the system can be acceptance tested at the same time as the PA / VA system itself. Installers and systems integrators can enrol in the [ASL Academy](http://www.asl-control.co.uk) for training courses to develop skills in this area. For further details visit [www.asl-control.co.uk](http://www.asl-control.co.uk).

## One screen, complete control



“a genuine innovation with 3D graphics allowing site users not only intuitive access to devices they need to control, but also detailed levels of asset management, tracking and fault finding”

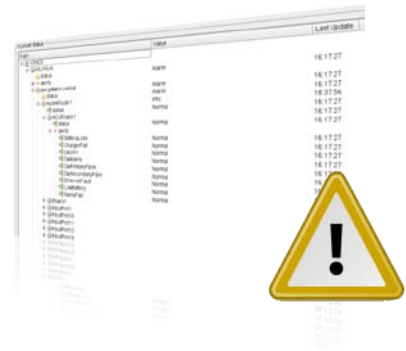
Judges' comments, AV Awards 2009

The mini iVENCs user interface is powered by the same award winning software engine first developed in iVENCs site management system. Models are stored in the open-source OGRE format allowing import from off-the-shelf CAD packages such as 3ds MAX®, or the free to download Google SketchUp®. Creation of a 2D or 3D model from standard CAD files of your station, airport, office or stadium is straightforward. Once imported into iVENCs, a model can be populated and speaker coverage laid out using mini iVENCs' built in 3D Equipment Editor mode. The [ASL Academy](#) offers training courses for systems integrators and installation partners wishing to build and populate models. SketchUp video tutorials can be downloaded from the website.



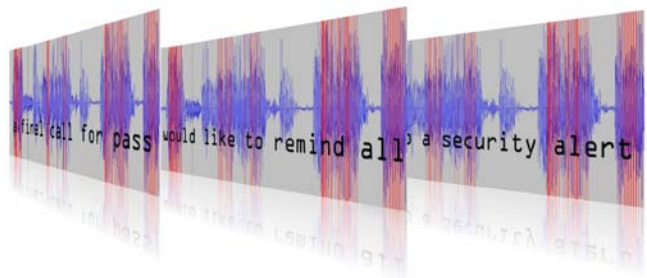
## Powerful fault reporting

mini iVENCs workstations provide detailed fault tree diagnostics for all VIPA enabled systems. Reporting of faults from third party equipment via ASL's BMB01 I/O units using contact fault signals. This provides SCADA type functionality within the LLPA system which includes incoming connection monitoring from



## Text-to-speech

mini iVENCs supports an optional text-to-speech engine allowing male and female speech broadcasts from PIS generated messages or text typed and saved by operators. The speech engine also allows the correction of words which are routinely mispronounced with the use of a phonetic mapping table.



### Languages supported

American Spanish	English x 4	
Arabic (SA) x 2	English (US) x 5	Polish
Brazilian Portugese	Finish	Portugese
Canadian French	French x 5	Russian
Czech	German x3	Spanish x2
Danish	Greek	Swedish x 3
Dutch (Belgian) x 2	Italian x 2	Turkish
Dutch (Netherlands)	Norwegian x 2	

## PIS integration

mini iVENCs can automatically generate PA announcements and drive displays from a variety of manufacturers. Additional interfaces can be supported on the provision of a sample system interface protocol or data for evaluation.

The passenger information system interface initiates the broadcast of 'next train / flight' and similar announcements to relevant PA zones, while time server synchronised messages are shown on associated displays. PA and display messages are formed from a library of recorded DVA fragments or TTS phrases, and are permanently stored and password protected at central and distributed locations. Where a requirement exists for multi-lingual support, each message will be recorded and stored in each of the languages, or multiple TTS languages can be used.

Flight	Gate	Remarks
FR3916	42	Final Call
FR2372	41	Final Call
FR3002	54	Final Call
FR232	53	Final Call
FR901	58	Final Call
FR434	45	Go To Gate
FR034	55	Go To Gate
FR2314	48	Go To Gate
FR203	44	Go To Gate
FR584	56	Go To Gate

## Network agnostic

ASL VIPA systems use standard IPv4 UDP multicast with IGMPv3 which is compatible with all modern networks including SDH, ADSL over legacy copper, leased lines, private and public fibre networks, and any other multicast capable Ethernet implementation. Different network equipment can be used at different points in the network.

ASL can supply a test tool that can be used to make sure that your network equipment is compatible with multicast.



VIPA® software is optimised for challenging networks

## Bandwidth efficient

Live broadcasts made to several locations require no more bandwidth than for an announcement to a single station. For information on how to configure your network visit the [ASL KnowledgeBase](http://www.asl-control.co.uk) at [www.asl-control.co.uk](http://www.asl-control.co.uk)

mini iVENCs offers flexible audio compression according to the availability of bandwidth. Dark fibre networks usually allow uncompressed audio while with ADSL networks, or where bandwidth contention dictates, audio is compressed using Speex; an open and free codec which is optimised for speech.



The Speex compression algorithm used by ASL requires a minimum of 64kbps per live audio channel. Audio is normally broadcast twice to improve the network integrity, so a practical minimum should be taken as being 128kbps. Note that for the case of poor network integrity due to traction current surges causing data loss on legacy copper network hardware, ASL can offer a number of retransmission and buffering techniques, which increase network integrity but with an overhead bandwidth requirement.

# Specifications

Usage Case	Redundancy	Operator screens Touchscreen and LCD options	Operator workstations Intel® Core™ i7 Processor 950 (3.06GHz, 8MB cache.) Includes mouse, keyboard and 'Listen in' speaker	Servers Intel® Core 2 Duo Processor E8400 (3.00GHz, 1333MHz, 6MB cache)	Notes
Single instance 2D or 3D system with PA/VA monitoring	No	19" screen 24" screen or, Dual 19" screens	1	0	Multiple role based logon support  OpenGL graphics card support required for 3D
Multiple mini iVENCs with PA/VA monitoring	Workstation only	24" screen or, Dual 19" screens	1 - 20	0	Multiple role based logon support and global DVA message store with real time synchronisation of scheduling and zone status.
Dual failover 3D mini iVENCs with PA/VA monitoring	Workstation and server	24" screen or, Dual 19" screens	1 - 20 per server	n servers as required	No additional software license fee for multiple servers at each location
Full iVENCs	Distributed architecture with server clustering	24" screen or, Quad 19" screens	1-20 per server	n servers as required	No additional software license fee for multiple servers at each location

## Microphone

General.....Pro Audio USB Mic Pre-amp  
 Power supply..... 48V phantom or USB powered  
 Digital Audio..... 24-bit / 96kHz Zero Latency monitoring  
 Audio Input.....Female XLR  
 Audio Output.....Stereo 1/8" headphone jack  
 EIN.....-121dBV (A-weighted, 150 Ohm source)  
 Dynamic Range.....103.5dB (A weighted min. gain)  
 THD+N.....0.01% (-0.5dBFS, 1KHz)  
 Input impedance.....5 kOhm  
 Maximum input..... -9.5dBV (min. gain) to -45.5dBV (max. gain)  
 Maximum output.. -7dBV @ 16 Ohm load, -1dBV @ 32 Ohm load  
 Dimensions.....11.4cm length, 4.8cm width, 5.0cm height  
 Weight.....62 grams

## VoIP

Protocol..... IPv4 UDP multicast with IGMPv3  
 Audio codec.....Speex, MP3, Ogg Vorbis, UDP Audio  
 Minimum bandwidth.....64kbps  
 with retransmission.....128Kbps



This equipment is designed and manufactured to conform to the following EC standards:  
 EMC: EN55103-1/E1:1997, EN55103-2/E5:1997, EN50121-4:2006, EN50204:1996  
 Safety: EN 60065:2002



QUALITY ASSURED FIRM  
 CERTIFICATE NUMBER 96-LON-AQ-041

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